

## FUEL INJECTOR NOZZLE ADAPTER

### Abstract

A fuel injector adapter for providing nitrous oxide to an internal combustion engine is disclosed. The nozzle has a fuel injector passage, having a central axis and terminating at an injector outlet, for passing fuel from a fuel injector to an engine. The 5 nozzle also has one or more first auxiliary passages, which may be arranged in an annular pattern around the fuel injector passage, and which terminate at first outlets. The nozzle furthermore may have one or more second auxiliary passages, which also may be arranged in an annular pattern around the fuel injector passage, and which terminate at second outlets. The first auxiliary passages and second auxiliary passages 10 are adapted to supply nitrous oxide or other additional combustion reactants to the engine. The nozzle may be attached to an engine intake and may be adapted to fit between a fuel injector and an engine without substantial modification to the engine.

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